

The image shows a 64x64 grid of binary symbols, likely representing the state of a cellular automaton. The symbols are arranged in a repeating pattern of four columns. The first column contains 'SSS' symbols. The second column contains 'SSSS' symbols. The third column contains 'SSSSS' symbols. The fourth column contains 'SSSSSS' symbols. The symbols are arranged in a staggered, wave-like pattern across the grid.

FILEID**SYSFORCEX

M 9

SSSSSSSS SSSSSSSS YY YY SSSSSSSS SSSSSSSS FFFFFFFF FFFFFFFF 000000 000000 RRRRRRRR RRRRRRRR CCCCCCCC CCCCCCCC EEEEEEEE XX XX
SSSSSSSS SSSSSSSS YY YY SS SS FF FF 00 00 RR RR RR CC EE EEEE EEEE XX XX
SSSSSS YY YY SS SS FF FF 00 00 RR RR RR CC EE EEEE XX XX
SSSS YY YY SS SS FF FF 00 00 RR RR RR CC EE EEEE XX XX
SSSSSS SSSSSS YY YY SSSSSS FFFFFF FFFFFF 00 00 RRRRRRRR CCCCCCCC EEEEEEEE XX XX
SSSSSS SSSSSS YY YY SSSSSS FFFFFF FFFFFF 00 00 RRRRRRRR CCCCCCCC EEEEEEEE XX XX
SS SS YY YY SS FF 00 00 RR RR RR CC EE EEEE XX XX
SS SS YY YY SS FF 00 00 RR RR RR CC EE EEEE XX XX
SS SS YY YY SS FF 00 00 RR RR RR CC EE EEEE XX XX
SS SS YY YY SS FF 00 00 RR RR RR CC EE EEEE XX XX
SSSSSSSS SSSSSSSS YY YY SSSSSSSS FF FF 000000 000000 RR RR RR CCCCCCCC EEEEEEEE XX XX
SSSSSSSS SSSSSSSS YY YY SSSSSSSS FF FF 000000 000000 RR RR RR CCCCCCCC EEEEEEEE XX XX

SYSFORCEX
Table of contents

FORCE EXIT SYSTEM SERVICE

N 9

16-SEP-1984 02:07:50 VAX/VMS Macro V04-00

Page 0

(1)	39	HISTORY	: DETAILED
(1)	48	DECLARATIONS	
(1)	72	EXE\$FORCEX - FORCE EXIT SYSTEM SERVICE	

0000 1
0000 2 .TITLE SYSFORCEX FORCE EXIT SYSTEM SERVICE
0000 3 .IDENT 'V04-000'
0000 4
0000 5 *****
0000 6 *****
0000 7 *
0000 8 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 9 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 10 * ALL RIGHTS RESERVED.
0000 11 *
0000 12 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 13 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 14 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 15 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 16 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 17 * TRANSFERRED.
0000 18 *
0000 19 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 20 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 21 * CORPORATION.
0000 22 *
0000 23 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 24 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 25 *
0000 26 *
0000 27 *****
0000 28
0000 29 ++
0000 30 :FACILITY: EXECUTIVE, SYSTEM SERVICES
0000 31
0000 32 :ABSTRACT:
0000 33
0000 34 :ENVIRONMENT:
0000 35
0000 36 --
0000 37
0000 38 :.PAGE
0000 39 :.SBttl HISTORY : DETAILED
0000 40
0000 41 :AUTHOR: R. HUSTVEDT CREATION DATE: 1-OCT-76
0000 42
0000 43 :MODIFIED BY:
0000 44 :01 - : VERSION
0000 45
0000 46

0000 48 .SBTTL DECLARATIONS
0000 49
0000 50 : INCLUDE FILES:
0000 52 :
0000 53 :
0000 54 \$ACBDEF : DEFINE AST CONTROL BLOCK
0000 55 \$IPLDEF : DEFINE INTERRUPT PRIORITY LEVELS
0000 56 \$PCBDEF : DEFINE PROCESS CONTROL BLOCK
0000 57 \$PRDEF : DEFINE PROCESSOR REGISTERS
0000 58 \$PRIDEF : DEFINE PRIORITY INCREMENT CLASSES
0000 59 \$SSDEF : DEFINE STATUS CODES
0000 60 :
0000 61 : EQUATED SYMBOLS:
0000 62 :
0000 63 :
0000 64 :
00000000 65 ASTEXIT=0 : CHMK CODE FOR ASTEXIT
0000000C 66 CODE=12 : DISPLACEMENT TO CODE PARAMETER
0000 67 :
0000 68 : OWN STORAGE:
0000 69 :
0000 70 :

0000 72 .SBTTL EXE\$FORCEX - FORCE EXIT SYSTEM SERVICE
 0000 73
 0000 74 ++
 0000 75 FUNCTIONAL DESCRIPTION:
 0000 76
 0000 77 CALLING SEQUENCE:
 0000 78 CALLG ARGLIST,EXE\$FORCEX
 0000 79
 0000 80 INPUT PARAMETERS:
 0000 81 PIDADR(AP) - ADDRESS OF PID (WRITTEN)
 0000 82 PRCNAM(AP) - ADDRESS OF PROCESS LOGICAL NAME
 0000 83 CODE(AP) - COMPLETION CODE TO BE USED FOR EXIT CALL
 0000 84 R4 - PCB ADDRESS OF CURRENT PROCESS
 0000 85
 0000 86 IMPLICIT INPUTS:
 0000 87 NONE
 0000 88
 0000 89 OUTPUT PARAMETERS:
 0000 90 @PIDADR(AP) - PID OF PROCESS FOR WHICH EXIT WAS FORCED
 0000 91 R0 - COMPLETION STATUS
 0000 92
 0000 93 IMPLICIT OUTPUTS:
 0000 94 NONE
 0000 95
 0000 96 COMPLETION CODES:
 0000 97 SSS_NORMAL - SUCCESSFUL COMPLETION
 0000 98 SSS_INSFMEM - INSUFFICIENT DYNAMIC MEMORY
 0000 99 SSS_NONEXPR - NON-EXISTENT PROCESS
 0000 100 SSS_NOPRIV - INSUFFICIENT PRIVILEGE TO CONTROL DETACHED PROCESS
 0000 101
 0000 102 SIDE EFFECTS:
 0000 103 NONE
 0000 104
 0000 105 --
 0000 106
 0000 107 EXE\$FORCEX::
 FFFB' 003C 0000 108 WORD ^M<R2,R3,R4,R5> : FORCE EXIT SYSTEM SERVICE
 30 0002 109 BSBW EXE\$NAMEPID : SAVE REGISTERS R2-R5
 0005 110 SETIPL #0 : CONVERT NAME-PID PAIR
 2B 50 E9 0008 111 BLBC R0,20\$: DROP IPL
 02 E2 000B 112 BBSS #PCBSV_FORCEPEN,PCBSL_STS(R4),10\$: EXIT IF ERROR
 51 DD 0010 113 PUSHL R1 : FORCE EXIT ALREADY PENDING
 FFEB' 30 0012 114 BSBW EXE\$ALLOCIRP : SAVE PID
 1E 50 E9 0015 115 BLBC R0,20\$: ALLOCATE AST CONTROL BLOCK
 OB A2 03 90 0018 116 MOVB #3,ACBSB_RMOD(R2) : EXIT IF ERROR
 OC A2 8E D0 001C 117 MOVL (SP)+,ACBSL_PID(R2) : SET ACCESS MODE
 10 A2 37'AF 9E 0020 118 MOVAB B^DOEXIT,ACBSL_AST(R2) : SET PID OF DESTINATION
 14 A2 0C AC D0 0025 119 MOVL CODE(AP),ACBSL_ASTPRM(R2) : AND ADDRESS OF AST ROUTINE
 55 52 D0 002A 120 MOVL R2,R5 : SET CODE FOR EXIT CALL
 52 02 9A 002D 121 MOVZBL #PRI\$,RESAVL,R2 : AST CONTROL BLOCK ADDRESS FOR QAST
 FFC'D' 30 0030 122 BSBW SCHSQAST : SET PRIORITY INCREMENT CLASS
 50 01 3C 0033 123 10\$: MOVZWL #SSS_NORMAL,R0 : QUEUE ACB FOR TARGET PROCESS
 04 0036 124 20\$: RET : SET NORMAL COMPLETION STATUS
 0037 125 : AND RETURN TO CALLER
 0037 126

0037 128 ;
0037 129 ; PERFORM EXIT AS A RESULT OF USER MODE AST IN THE CONTEXT OF THE
0037 130 ; TARGET PROCESS.
0037 131 ;
0037 132 ;
0037 133 DOEXIT:
00 0000 0037 134 .WORD 0 ; NULL REGISTER SAVE MASK
BC 0039 135 CHMK #ASTEXIT ; CLEAR AST ACTIVE FLAG
003B 136 SEXIT_S 4(AP) ; MAKE EXIT CALL
0045 137 ;
0045 138 ;
0045 139 .END

SYSFORCEX
Symbol table

FORCE EXIT SYSTEM SERVICE

F 10

16-SEP-1984 02:07:50 VAX/VMS Macro V04-00
5-SEP-1984 03:53:21 [SYS.SRC]SYSFORCEX.MAR;1

Page 5
(1)

ACBSB_RMOD = 0000000B
ACBSL_AST = 00000010
ACBSL_ASTPRM = 00000014
ACBSL_PID = 0000000C
ASTEXIT = 00000000
CODE = 0000000C
DOEXIT 00000037 R 01
EXE\$ALLOCIRP ***** X 01
EXE\$FORCEX 00000000 RG 01
EXESNAMPID ***** X 01
PCBSL_STS = 00000024
PCBSV_FORCPEN = 00000002
PRS_IPL = 00000012
PRIS_RESAVL = 00000002
SCHS\$AST ***** X 01
SSS_NORMAL = 00000001
SYSSEXIT ***** GX 01

+-----+
! Psect synopsis !
+-----+

PSECT name

PSECT name	Allocation	PSECT No.	Attributes	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
. ABS .	00000000	(0.)	00 (0.) NOPIC USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
. BLANK .	00000045	(69.)	01 (1.) NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE
\$ABSS	00000000	(0.)	02 (2.) NOPIC USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.06	00:00:01.17
Command processing	109	00:00:00.58	00:00:06.28
Pass 1	242	00:00:06.02	00:00:18.03
Symbol table sort	0	00:00:01.05	00:00:04.28
Pass 2	40	00:00:01.03	00:00:04.65
Symbol table output	4	00:00:00.03	00:00:00.04
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	429	00:00:08.81	00:00:34.49

The working set limit was 1200 pages.

33261 bytes (65 pages) of virtual memory were used to buffer the intermediate code.

There were 40 pages of symbol table space allocated to hold 667 non-local and 2 local symbols.

139 source lines were read in Pass 1, producing 12 object records in Pass 2.

15 pages of virtual memory were used to define 14 macros.

SYSFORCEX
VAX-11 Macro Run Statistics

FORCE EXIT SYSTEM SERVICE

G 10

16-SEP-1984 02:07:50 VAX/VMS Macro V04-00
5-SEP-1984 03:53:21 [SYS.SRC]SYSFORCEX.MAR;1

Page 6
(1)

+-----+
! Macro library statistics !
+-----+

Macro Library name

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

Macros defined

5
6
11

753 GETS were required to define 11 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:SYSFORCEX/OBJ=OBJ\$:SYSFORCEX MSRC\$:SYSFORCEX/UPDATE=(ENH\$:SYSFORCEX)+EXECML\$/LIB

0384 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

SYSGETJPI
LIS

SYSERAPAT
LIS

SYSFAO
LIS

SYSGETDVI
LIS

SYSEXIT
LIS

SYSEUTSRU
LIS

SYSFORCEX
LIS